

EX03-058C-USpatentin.txt
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 Asp Gly Cys Thr Ala Phe Ala Leu Met Tyr Glu Gly Arg Arg Val Ala
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 Ile Leu Arg Asn Pro Glu Phe Phe Glu His Arg Lys Glu Glu Arg Cys
 340 345 350
 Ala Arg Gln Trp Gly Thr Thr Cys Lys Asn His Pro Tyr Ile Lys Met
 355 360 365
 Val Met Glu Gln Gly Asp Trp Leu Ile Gly Gly Asp Leu Gln Val Leu
 370 375 380
 Asp Arg Val Tyr Trp Asn Asp Gly Leu Asp Gln Tyr Arg Leu Thr Pro
 385 390 395 400
 Thr Glu Leu Lys Gln Lys Phe Lys Asp Met Asn Ala Asp Ala Val Phe
 405 410 415
 Ala Phe Gln Leu Arg Asn Pro Val His Asn Gly His Ala Leu Leu Met
 420 425 430
 Gln Asp Thr His Lys Gln Leu Leu Glu Arg Gly Tyr Arg Arg Pro Val
 435 440 445
 Leu Leu Leu His Pro Leu Gly Gly Trp Thr Lys Asp Asp Asp Val Pro
 450 455 460

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Leu Met Trp Arg Met Lys Gln His Ala Ala Val Leu Glu Glu Gly Val
465 470 475 480

Leu Asn Pro Glu Thr Thr Val Val Ala Ile Phe Pro Ser Pro Met Met
485 490 495

Tyr Ala Gly Pro Thr Glu Val Gln Trp His Cys Arg Ala Arg Met Val
500 505 510

Ala Gly Ala Asn Phe Tyr Ile Val Gly Arg Asp Pro Ala Gly Met Pro
515 520 525

His Pro Glu Thr Gly Lys Asp Leu Tyr Glu Pro Ser His Gly Ala Lys
530 535 540

Val Leu Thr Met Ala Pro Gly Leu Ile Thr Leu Glu Ile Val Pro Phe
545 550 555 560

Arg Val Ala Ala Tyr Asn Lys Lys Lys Lys Arg Met Asp Tyr Tyr Asp
565 570 575

Ser Glu His His Glu Asp Phe Glu Phe Ile Ser Gly Thr Arg Met Arg
580 585 590

Lys Leu Ala Arg Glu Gly Gln Lys Pro Pro Glu Gly Phe Met Ala Pro
595 600 605

Lys Ala Trp Thr Val Leu Thr Glu Tyr Tyr Lys Ser Leu Glu Lys Ala
610 615 620

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<211> 614
<212> PRT
<213> Homo sapiens

<400> 12

Met Ser Gly Ile Lys Lys Gln Lys Thr Glu Asn Gln Gln Lys Ser Thr
1 5 10 15

Asn Val Val Tyr Gln Ala His His Val Ser Arg Asn Lys Arg Gly Gln
20 25 30

Val Val Gly Thr Arg Gly Gly Phe Arg Gly Cys Thr Val Trp Leu Thr
35 40 45

Gly Leu Ser Gly Ala Gly Lys Thr Thr Ile Ser Phe Ala Leu Glu Glu
50 55 60

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Tyr Leu Val Ser His Ala Ile Pro Cys Tyr Ser Leu Asp Gly Asp Asn
 65 70 75 80
 Val Arg His Gly Leu Asn Arg Asn Leu Gly Phe Ser Pro Gly Asp Arg
 85 90 95
 Glu Glu Asn Ile Arg Arg Ile Ala Glu Val Ala Lys Leu Phe Ala Asp
 100 105 110
 Ala Gly Leu Val Cys Ile Thr Ser Phe Ile Ser Pro Phe Ala Lys Asp
 115 120 125
 Arg Glu Asn Ala Arg Lys Ile His Glu Ser Ala Gly Leu Pro Phe Phe
 130 135 140
 Glu Ile Phe Val Asp Ala Pro Leu Asn Ile Cys Glu Ser Arg Asp Val
 145 150 155 160
 Lys Gly Leu Tyr Lys Arg Ala Arg Ala Gly Glu Ile Lys Gly Phe Thr
 165 170 175
 Gly Ile Asp Ser Asp Tyr Glu Lys Pro Glu Thr Pro Glu Arg Val Leu
 180 185 190
 Lys Thr Asn Leu Ser Thr Val Ser Asp Cys Val His Gln Val Val Glu
 195 200 205
 Leu Leu Gln Glu Gln Asn Ile Val Pro Tyr Thr Ile Ile Lys Asp Ile
 210 215 220
 His Glu Leu Phe Val Pro Glu Asn Lys Leu Asp His Val Arg Ala Glu
 225 230 235 240
 Ala Glu Thr Leu Pro Ser Leu Ser Ile Thr Lys Leu Asp Leu Gln Trp
 245 250 255
 Val Gln Val Leu Ser Glu Gly Trp Ala Thr Pro Leu Lys Gly Phe Met
 260 265 270
 Arg Glu Lys Glu Tyr Leu Gln Val Met His Phe Asp Thr Leu Leu Asp
 275 280 285
 Asp Gly Val Ile Asn Met Ser Ile Pro Ile Val Leu Pro Val Ser Ala
 290 295 300
 Glu Asp Lys Thr Arg Leu Glu Gly Cys Ser Lys Phe Val Leu Ala His

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305				310				315				320			
Gly	Gly	Arg	Arg	Val 325	Ala	Ile	Leu	Arg	Asp 330	Ala	Glu	Phe	Tyr	Glu 335	His
Arg	Lys	Glu	Glu 340	Arg	Cys	Ser	Arg	Val 345	Trp	Gly	Thr	Thr	Cys 350	Thr	Lys
His	Pro	His 355	Ile	Lys	Met	Val	Met 360	Glu	Ser	Gly	Asp	Trp 365	Leu	Val	Gly
Gly	Asp 370	Leu	Gln	Val	Leu	Glu 375	Lys	Ile	Arg	Trp	Asn 380	Asp	Gly	Leu	Asp
Gln 385	Tyr	Arg	Leu	Thr	Pro 390	Leu	Glu	Leu	Lys	Gln 395	Lys	Cys	Lys	Glu	Met 400
Asn	Ala	Asp	Ala	Val 405	Phe	Ala	Phe	Gln	Leu 410	Arg	Asn	Pro	Val	His 415	Asn
Gly	His	Ala	Leu 420	Leu	Met	Gln	Asp	Thr 425	Cys	Arg	Arg	Leu	Leu 430	Glu	Arg
Gly	Tyr	Lys 435	His	Pro	Val	Leu	Leu 440	Leu	His	Pro	Leu	Gly 445	Gly	Trp	Thr
Lys	Asp 450	Asp	Asp	Val	Pro	Leu 455	Asp	Trp	Arg	Met	Lys 460	Gln	His	Ala	Ala
Val 465	Leu	Glu	Glu	Gly	Val 470	Leu	Asp	Pro	Lys	Ser 475	Thr	Ile	Val	Ala	Ile 480
Phe	Pro	Ser	Pro	Met 485	Leu	Tyr	Ala	Gly	Pro 490	Thr	Glu	Val	Gln	Trp 495	His
Cys	Arg	Ser	Arg 500	Met	Ile	Ala	Gly	Ala 505	Asn	Phe	Tyr	Ile	Val 510	Gly	Arg
Asp	Pro	Ala 515	Gly	Met	Pro	His	Pro 520	Glu	Thr	Lys	Lys	Asp 525	Leu	Tyr	Glu
Pro	Thr 530	His	Gly	Gly	Lys	Val 535	Leu	Ser	Met	Ala	Pro 540	Gly	Leu	Thr	Ser
Val 545	Glu	Ile	Ile	Pro	Phe 550	Arg	Val	Ala	Ala	Tyr 555	Asn	Lys	Ala	Lys	Lys 560

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Ala Met Asp Phe Tyr Asp Pro Ala Arg His Asn Glu Phe Asp Phe Ile
 565 570 575

Ser Gly Thr Arg Met Arg Lys Leu Ala Arg Glu Gly Glu Asn Pro Pro
 580 585 590

Asp Gly Phe Met Ala Pro Lys Ala Trp Lys Val Leu Thr Asp Tyr Tyr
 595 600 605

Arg Ser Leu Glu Lys Asn
 610